



Docket No. 740756-2670

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:)	Confirmation No.: 2735
Shinji MAEKAWA <i>et al.</i>)	
Application No. 10/713,219)	Examiner: Laura M. Schillinger
Filed: November 17, 2003)	Group Art Unit: 2813
For: METHOD FOR FABRICATING THIN)	
FILM TRANSISTOR)	
)	Date: September 9, 2005

INFORMATION DISCLOSURE STATEMENT

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. §1.56, Applicant hereby submits the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Copies of the non-U.S. patent documents are enclosed.

The Commissioner is authorized to charge the amount of \$180.00 to Deposit Account No. 19-2380 (740756-2670) in compliance with the provisions of 37 C.F.R. § 1.97(c).

To assist the Examiner, the documents are listed on the attached form PTO-1449.

These documents were cited in the copending application Serial No. 10/056,055 (hereinafter, "'055"). The '055 application was discussed in the Office Action of May 3, 2005 in the subject application.

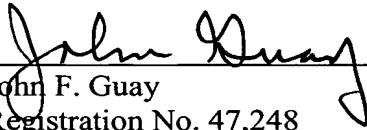
Among these references, JP05-109737, JP2000-260777, and JP3032801 appear to teach a gettering method. USP6255195 is a family of JP2000-260777, and USP6165824 is a family of JP3032801.

It is requested that the accompanying PTO-1449 be considered and made of record in the above-identified application. It is respectfully requested that the Examiner initial a copy of this form and return it to the undersigned.

09/13/2005 HAL111 00000035 192380 10713219
01 FC:1806 180.00 DA

The Commissioner is hereby authorized to charge any fees connected with this filing which may be required now, or credit any overpayment to Deposit Account No. 19-2380.

Respectfully submitted,

By: 
John F. Guay
Registration No. 47,248

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Substitute for form 1449A				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/713,219
				Filing Date	November 17, 2003
				First Named Inventor	Shinji MAEKAWA et al.
				Art Unit	2813
				Examiner Name	Laura M. Schillinger
Sheet	1	of	5	Attorney Docket Number	740756-2670

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-2001/0034088	10/25/2001	Nakamura, et al.	
		US-2002/0028543	03/07/2002	Yamazaki, et al.	
		US-2002/0086469	07/04/2002	Kim, et al.	
		US-2002/0102764	08/01/2002	Yamazaki, et al.	
		US-2002/0106861	08/08/2002	Yamazaki	
		US-2002/0142554	10/03/2002	Nakajima	
		US-2002/0151120	10/17/2002	Yamazaki, et al.	
		US-2002/0151154	10/17/2002	Yamazaki, et al.	
		US-2002/0164843	11/07/2002	Yamazaki, et al.	
		US-2002/0187594	12/12/2002	Yamazaki, et al.	
		US-2002/0197785	12/26/2002	Yamazaki, et al.	
		US-2003/0060057	03/27/2003	Raaijmakers, et al.	
		US-2003/0062499	04/03/2003	Yamazaki	
		US-2003/0122129	07/03/2003	Yamazaki, et al.	
		US-2003/0132900	07/17/2003	Yamauchi, et al.	
		US-2003/0197179	10/23/2003	Yamazaki, et al.	
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		US-3,535,775	10/27/1970	Garfinkel, et al.	
		US-4,371,403	02/01/1983	Ikubo, et al.	
		US-4,477,308	10/16/1984	Gibson, et al.	
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		US-4,727,044	02/23/1988	Yamazaki, et al.	
		US-5,244,819	09/14/1993	Yue	
		US-5,248,630	09/28/1993	Serikawa, et al.	
		US-5,275,896	01/04/1994	Garofalo, et al.	
		US-5,403,772	04/04/1995	Zhang, et al.	
		US-5,426,064	06/20/1995	Zhang, et al.	
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		US-5,488,000	01/30/1996	Zhang, et al.	
		US-5,492,843	02/20/1996	Adachi, et al.	
		US-5,501,989	03/26/1996	Takayama, et al.	
		US-5,508,533	04/16/1996	Takemura	
		US-5,529,937	06/25/1996	Zhang, et al.	
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		US-5,543,352	08/06/1996	Ohtani, et al.	
		US-5,550,070	08/27/1996	Funai, et al.	
		US-5,551,984	09/03/1996	Tanahashi	
		US-5,563,426	10/08/1996	Zhang, et al.	
		US-5,569,610	10/29/1996	Zhang, et al.	
		US-5,569,936	10/29/1996	Zhang, et al.	

Examiner Signature		Date Considered	
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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at 222.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/713,219
				Filing Date	November 17, 2003
				First Named Inventor	Shinji MAEKAWA et al.
				Art Unit	2813
				Examiner Name	Laura M. Schillinger
Sheet	2	Of	5	Attorney Docket Number	740756-2670

U.S. PATENT DOCUMENTS					
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		Number - Kind Code ² (if known)			
		US-5,580,792	12/03/1996	Zhang, et al.	
		US-5,585,291	12/17/1996	Ohtani, et al.	
		US-5,589,694	12/31/1996	Takayama, et al.	
		US-5,595,923	01/21/1997	Zhang, et al.	
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		US-5,604,360	02/18/1997	Zhang, et al.	
		US-5,605,846	02/25/1997	Ohtani, et al.	
		US-5,606,179	02/25/1997	Yamazaki, et al.	
		US-5,608,232	03/04/1997	Yamazaki, et al.	
		US-5,612,250	03/18/1997	Ohtani, et al.	
		US-5,614,426	03/25/1997	Funada, et al.	
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		US-5,616,506	04/01/1997	Takemura	
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		US-5,624,851	04/29/1997	Takayama, et al.	
		US-5,637,515	06/10/1997	Takemura	
		US-5,639,698	06/17/1997	Yamazaki, et al.	
		US-5,643,826	07/01/1997	Ohtani, et al.	
		US-5,646,424	07/08/1997	Zhang, et al.	
		US-5,654,203	08/05/1997	Ohtani, et al.	
		US-5,656,825	08/12/1997	Kusumoto, et al.	
		US-5,663,077	09/02/1997	Adachi, et al.	
		US-5,677,549	10/14/1997	Takayama, et al.	
		US-5,696,003	12/09/1997	Makita, et al.	
		US-5,696,386	12/09/1997	Yamazaki	
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		US-5,700,333	12/23/1997	Yamazaki, et al.	
		US-5,705,829	01/06/1998	Miyanaga, et al.	
		US-5,712,191	01/27/1998	Nakajima, et al.	
		US-5,744,824	04/28/1998	Kousai, et al.	
		US-5,773,327	06/30/1998	Yamazaki, et al.	
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		US-5,923,962	07/13/1999	Ohtani, et al.	

Examiner Signature	Date Considered
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				Art Unit		2813
				Examiner Name		Laura M. Schillinger
Sheet	3	Of	5	Attorney Docket Number		740756-2670

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		Number - Kind Code ² (if known)			
		US-5,932,893	08/03/1999	Miyanaga, et al.	
		US-5,949,115	09/07/1999	Yamazaki, et al.	
		US-5,956,579	09/21/1999	Yamazaki	
		US-5,960,252	09/28/1999	Matsuki, et al.	
		US-5,961,743	10/05/1999	Yamazaki, et al.	
		US-5,970,327	10/19/1999	Makita, et al.	
		US-5,977,559	11/02/1999	Zhang, et al.	
		US-5,985,740	11/16/1999	Yamazaki, et al.	
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		US-6,013,544	01/11/2000	Makita, et al.	
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		US-6,022,458	02/08/2000	T. Ichikawa	
		US-6,027,987	02/22/2000	Yamazaki, et al.	
		US-6,063,654	05/16/2000	Ohtani	
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		US-6,071,764	06/06/2000	Zhang, et al.	
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		US-6,083,324	07/04/2000	Henley, et al.	
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		US-6,180,439	01/30/2001	Yamazaki, et al.	

Examiner Signature		Date Considered	
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				Filing Date		November 17, 2003
				First Named Inventor		Shinji MAEKAWA et al.
				Art Unit		2813
				Examiner Name		Laura M. Schillinger
Sheet	4	Of	5	Attorney Docket Number		740756-2670

U.S. PATENT DOCUMENTS					
Examiner Initials [*]	Cite No. ¹	U.S. Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ^{2,3,4} (if known)			
		US-6,184,559	02/06/2001	Hayakawa, et al.	
		US-6,194,255	02/27/2001	Hiroki, et al.	
		US-6,197,624	03/06/2001	Yamazaki	
		US-6,201,585	03/13/2001	Takano, et al.	
		US-6,204,101	03/20/2001	Yamazaki, et al.	
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		US-6,207,969	03/27/2001	Yamazaki	
		US-6,218,219	04/17/2001	Yamazaki, et al.	
		US-6,225,152	05/01/2001	Yamazaki, et al.	
		US-6,232,205	05/15/2001	H. Ohtani	
		US-6,232,621	05/15/2001	Yamazaki, et al.	
		US-6,242,290	06/05/2001	Nakajima, et al.	
		US-6,251,712	06/26/2001	Tanaka, et al.	
		US-6,255,195	07/03/2001	Linn, et al.	
		US-6,285,042	09/04/2001	Ohtani, et al.	
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		US-6,306,694	10/23/2001	Yamazaki, et al.	
		US-6,307,214	10/23/2001	Ohtani, et al.	
		US-6,316,789	11/13/2001	Yamazaki, et al.	
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		US-6,331,457	12/18/2001	Yamazaki, et al.	
		US-6,337,259	01/08/2002	Ueda, et al.	
		US-6,346,730	02/12/2002	Kitakado, et al.	
		US-6,362,507	03/26/2002	Ogawa, et al.	
		US-6,376,336	04/23/2002	Buynoski	
		US-6,391,690	05/21/2002	Miyasaka	
		US-6,396,147	05/28/2002	Adachi, et al.	
		US-6,399,454	06/04/2002	Yamazaki	
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		US-6,420,758	07/16/2002	Nakajima	
		US-6,426,276	07/30/2002	Ohnuma, et al.	
		US-6,429,097	08/06/2002	Voutsas, et al.	
		US-6,436,745	08/20/2002	Gotou, et al.	
		US-6,461,943	10/08/2002	Yamazaki, et al.	
		US-6,489,189	12/03/2002	Yamazaki, et al.	
		US-6,512,504	01/28/2003	Yamauchi, et al.	
		US-6,531,713	03/11/2003	Yamazaki	

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		US-6,534,826	03/18/2003	Yamazaki	
		US-6,541,294	04/01/2003	Yamazaki, et al.	
		US-6,576,926	06/10/2003	Yamazaki, et al.	
		US-6,579,736	06/17/2003	Yamazaki	
		US-6,680,577	01/20/2004	Inukai, et al.	
		US-6,709,902	03/23/2004	Kitakado, et al.	
		US-6,737,604	05/18/2004	Yamazaki, et al.	
		US-6,743,649	06/01/2004	Yamazaki, et al.	

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		Country Code ³ Number ⁴ Kind Code ⁵ <i>(if known)</i>				
		JP-05-109737	04-30-1993	Yamada		FULL
		JP-06-151414	05-31-1994	Yamada		AB
		JP-07-130652	05-19-1995	Otani, et al.		AB
		JP-07-183540	07-21-1995	Otani, et al.		AB
		JP-09-074207	03-18-1997	Saito		FULL
		JP-10-055951	02-24-1998	Yoshizawa		AB
		JP-2000-105081	04-11-2000	Takahashi		AB
		JP-2000-260777	09-22-2000	Linn		AB
		JP-2001-210828	08-03-2001	Miyasaka		AB
		JP-2001-267264	09-28-2001	Horiuchi, et al.		AB
		JP-3032801	02-18-2002	Takano, et al.		AB

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ⁵	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Kevin S. Jones, et al., " <u>Boron Diffusion Upon Annealing of Laser Thermal Processed Silicon</u> ", ION Implantation Technology 2000 (IEEE 2000), pp. 111-114.	
		Lurng S. Lee, et al., " <u>Argon Ion-Implantation on Polysilicon or Amorphous-Silicon for Boron Penetration Suppression in p⁺pMOSFET</u> ", IEEE Transactions on Electron Devices, Volume 45, No. 8, August 1998, pp. 1737-1744.	
		D. J. Llewellyn, et al., " <u>Implantation and annealing of Cu in InP for electrical isolation: microstructural characterization</u> ", IEEE Electron Device Letters, pp. 313-316.	
		M. Miyake, et al., " <u>Characteristics of Buried-Channel pMOS Devices With Shallow Counter-Doped Layers Fabricated Using Channel Preamorphization</u> ", IEEE Transactions on Electron Devices, Volume 43, No. 3, March 1996, pp. 444-449.	

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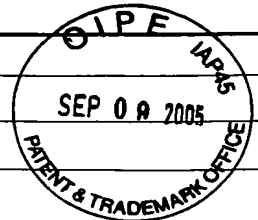
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#670608.1

FEE TRANSMITTAL FOR FY 2005

Complete if Known

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☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$180.00)

METHOD OF PAYMENT (check all that apply)

- ☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____
- ☒ Deposit Account Deposit Account Number: 19-2380 Deposit Account Name: NIXON PEABODY LLP
- For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)
- ☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee
- ☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-20238.

FEE CALCULATION

1. BASIC FILING, SEARCH AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple document claims	360	180

Total Claims - 20 or HP = _____ x _____ = _____
HP = highest number of total claims paid for, if greater than 20

Extra Claims Fee (\$): _____ Fee Paid (\$): _____

Multiple Dependent Claims Fee (\$): _____ Fee Paid (\$): _____

Indep. Claims - 3 or HP = _____ x _____ = _____
HP = highest number of independent claims paid for, if greater than 3

Extra Claims Fee (\$): _____ Fee Paid (\$): _____

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets - 100 = _____ **Extra Sheets** / 50 = _____ **Number of each additional 50 or fraction thereof** (round up to a whole number) x _____ **Fee (\$)** = _____ **Fee Paid (\$)**

4. OTHER FEE(S)

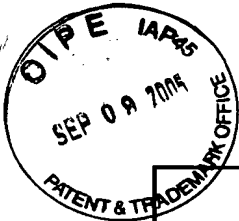
Non-English Specification, \$130 fee (no small entity discount)

Other: Information Disclosure Statement Fee

\$ 180.00

SUBMITTED BY

Signature		Registration No. 47,248 (Attorney/Agent)	Telephone 202-585-8000
Name (Print/Type)	John F. Guay	Date	September 9, 2005



TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/713,219	
	Filing Date	November 17, 2003	
	First Named Inventor	Shinji MAEKAWA <i>et al.</i>	
	Group Art Unit	2813	
	Examiner Name	Laura M. Schillinger	
Total Number of Pages in This Submission	9	Attorney Docket Number	740756-2670

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input checked="" type="checkbox"/> PTO-Form 1449 w/ 15 references <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Declaration and Power of Attorney <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Application Data Sheet <input type="checkbox"/> Request for Corrected Filing Receipt with Enclosures <input type="checkbox"/> A self-addressed prepaid postcard for acknowledging receipt <input type="checkbox"/> Other Enclosure(s) (please identify below):
Remarks		<input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees required or credit any overpayments to Deposit Account No. 19-2380 for the above identified docket number.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	John F. Guay (Reg. No. 47,248) Nixon Peabody LLP 401 9 th Street, N.W. Suite 900 Washington, D.C. 20004-2128
Signature	
Date	September 9, 2005

CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(a)]	
I hereby certify that this correspondence is being:	
<input type="checkbox"/> deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop _____, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450	
<input type="checkbox"/> transmitted by facsimile on the date shown below to the United States Patent and Trademark Office at (703) _____	
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